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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,786	01/12/2004	Hong-chin Lin	EMEP0062USA 1785		
27765	7590 12/27/2004		EXAMINER		
•	ORTH AMERICA INTER	CUNNINGHAM, TERRY D			
P.O. BOX 50 MERRIFIEL	6 D, VA 22116	ART UNIT	PAPER NUMBER		
,, , , , , , , , , , , , , , , , ,			2816		
			DATE MAILED: 12/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	Application No.		Applicant(s)				
		10/707,78	6	LIN ET AL.					
		Examiner		Art Unit					
		Terry D. C	unningham	2816					
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	correspondence ad	idress				
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REIMAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, are period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by state to reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no eve reply within the statu riod will apply and will atute, cause the appli	ent, however, may a reply be ting story minimum of thirty (30) day ill expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered time the mailing date of this of CO (35 U.S.C. § 133).					
Status									
1)	Responsive to communication(s) filed on								
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims		,						
5)□ 6)⊠ 7)□	Claim(s) <u>1-16</u> is/are pending in the application 4a) Of the above claim(s) is/are without Claim(s) is/are allowed. Claim(s) <u>1-16</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	drawn from cor	•		•				
Applicat	ion Papers								
9)[The specification is objected to by the Exam	niner.	·	-					
10)🖾) In the drawing (s) filed on 12 January 2004 is/are: a) accepted or b) objected to by the Examiner.								
-	Applicant may not request that any objection to t	the drawing(s) b	e held in abeyance. Se	e 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	•		•	` /				
Priority (ınder 35 U.S.C. § 119								
12) a)	Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. See the attached detailed Office action for a light section.	ents have beer ents have beer oriority docume reau (PCT Rule	n received. n received in Applicati nts have been receive e 17.2(a)).	ion No ed in this National	Stage				
Attachmen	t(s)			,					
	e of References Cited (PTO-892)		4) Interview Summary	•					
3) 🔲 Inford	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	08)	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		D-152)				

Application/Control Number: 10/707,786

Art Unit: 2816

DETAILED ACTION

Claim Objections

Claims 2 and 3 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

In claim 2, reciting the method for <u>only</u> "each even stage" does not limit the overall method of claim 1. It is suggested that "for" in line 1 be changed to --, wherein-- and that "comprising" in line 2 be changed to --comprises--.

In claim 3, reciting the method for only "each odd stage" does not limit the overall method of claim 1. It is suggested that "for" in line 1 be changed to --, wherein-- and that "comprising" in line 2 be changed to --comprises--.

Claims 5 and 10 are objected to for the informalities listed below.

In claim 5, line 2, "comprising" should be --comprises--.

In claim 10, line 1, "comprises" should be --comprising--.

Appropriate corrections for the above discussed objections are required.

Claim Rejections - 35 USC § 112

Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it is not understood how the circuit can operate without a recitation of a connection between the units or and recitation of an output. Thus, it is suggested that --to provide a common output-- be inserted following "unit" and before the comma in line 4. In line

Art Unit: 2816

28, "the bodies of the main pass transistor" has no antecedent, is not understood and is grammatically incorrect. It is suggested that this phrase be changed to --the body of each main pass transistor of the first and second pumping units--. In line 42, there is no antecedent for "the method for the first stage of the dual pumping circuit" or "the first stage". Further, it is not understood how this relates to the "method" of line 1. Thus, it is suggested that "for the first stage of the dual pumping circuit" be deleted.

Claims 2-8 are rejected as including the indefiniteness discussed above with claim 1.

Claim 9 is indefinite for similar reasons as lines 1-41 of claim 1.

Claims 10-16 are rejected as including the indefiniteness discussed above with claim 9.

Allowable Subject Matter

Claims 1-16 would be allowable if rewritten or amended to overcome the informality objections and the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 1-16 are deemed allowable over the prior art. While many of the cited circuits, such as Bloch et al., disclose a pump stage having a "first pumping unit" similar to the recited in the claims, none of the cited reference further disclose a "second pumping unit" interoperating with the "first pumping unit" and having the recited connections.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

Art Unit: 2816

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC December 22, 2004 Terry D. Cunningham Primary Examiner

Primary Examiner
Art Unit 2816